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AMENDMENTS TO THE CLAIMS:

The following listing of claims will replace all prior versions and listings of claims

in the application. Please amend claims 2, 7, 9, 11, 14, 16, 25, 27, 30, 31, 35-40, 42,

and 45, as follows:

1. (Original) An objective lens for use in an optical pickup apparatus,

comprising:

a first lens molded with a plastic and having an optically functional section, a

flange section provided around the periphery of the optically functional section, and a

first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having

an optically functional section, a flange section provided around the periphery of the

optically functional section, and a second contacting section provided on the flange

section,

wherein the first lens and the second lens are jointed in such a way that the first

contacting section and the second contacting section are brought in contact with each

other,

wherein the first lens has a first surface and a second surface and the second

lens has a third surface and a fourth surface as an optically functional surface, and

wherein when the objective lens has an object side and an image side, the first surface,

the second surface, the third surface and the fourth surface are arranged in this order

from the object side and the first surface and the third surface are a convex surface

respectively, and

wherein an outer diameter of the second lens is smaller than that of the first lens.

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2. (Currently Amended) The objective lens of claim 1, wherein the first

contacting surface section is provided on a flange section provided around the periphery

of the second surface and is protruded toward the image side in the optical axis

direction from a position of the second surface and the second contacting surface

section is provided on a flange section provided around the periphery of the third

surface and is protruded toward the object side in the optical axis direction.

3. (Original) The objective lens of claim 2, wherein the first contacting section

and the second contacting section are brought in contact with each other so that the first

lens holds the second lens.

4. (Original) The objective lens of claim 1, wherein the fourth surface is a flat

surface.

5. (Original) The objective lens of claim 1, wherein a concave portion made

hollow toward the object side from a position where the fourth surface is located closest

to the object is provided on the flange section provided around the periphery of the

optically functional section.

6. (Original) The objective lens of claim 1, wherein the first contacting section

and the second contacting section are brought in contact with each other so that

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relatively positioning in the optical axis direction between the first lens and the second lens is determined.

- 7. (Currently Amended) The objective lens of claim 6, wherein the first contacting surface section has a first perpendicular surface perpendicular to the optical axis and the second contacting surface section has a second perpendicular surface perpendicular to the optical axis and wherein the first perpendicular surface and the second perpendicular surface are brought in contact with each other so that relatively positioning in the optical axis direction between the first lens and the second lens is determined.
- 8. (Original) The objective lens of claim 1, wherein the first contacting section and the second contacting section are brought in contact with each other so that relatively positioning in a direction perpendicular to the optical axis between the first lens and the second lens is determined.
- 9. (Currently Amended) The objective lens of claim 8, wherein the first contacting surface section has a first parallel surface parallel to the optical axis and the second contacting surface section has a second parallel surface parallel to the optical axis and wherein the first parallel surface and the second parallel surface are brought in contact with each other so that relatively positioning in the direction perpendicular to the optical axis between the first lens and the second lens is determined.

10. (Original) The objective lens of claim 1, wherein the first contacting section and the second contacting section are brought in contact with each other so that relatively positioning in the optical direction and in a direction perpendicular to the optical axis between the first lens and the second lens is determined.

11. (Currently Amended) The objective lens of claim 10, wherein the first contacting surface section has a first perpendicular surface perpendicular to the optical axis and a first parallel surface parallel to the optical axis and the second contacting surface section has a second perpendicular surface perpendicular to the optical axis and a second parallel surface parallel to the optical axis and wherein the first surface perpendicular surface and the second perpendicular surface are brought in contact with each other so that relatively positioning in the optical axis direction between the first lens and the second lens is determined, and the first parallel surface and the second parallel surface are brought in contact with each other so that relatively positioning in the direction perpendicular to the optical axis between the first lens and the second lens is determined.

12. (Original) The objective lens of claim 1, wherein the first contacting section and the second contacting section are brought in contact with each other so that the first lens and the second lens are engaged tightly with each other with no clearance between the first lens and the second lens.

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13. (Original) The objective lens of claim 1, wherein the first contacting section

and the second contacting section are brought in contact with each other so that the first

lens and the second lens are engaged with each other with a clearance between the

first lens and the second lens.

14. (Currently Amended) The objective lens of claim 1, wherein after the first

contacting section and the second contacting section are brought in contact with each

other, the [[fist]] first lens and the second lens are fixed.

15. (Original) The objective lens of claim 1, wherein the optically functional

section of the first lens and the optically functional section of the second lens are

located opposite to each other and are spaced from each other.

16. (Currently Amended) The objective lens of claim 1, wherein the diameter of

the optically functional section of a lens located closest to the image side is 40% or less

of the outer diameter of the lens located closest to the image side.

17. (Original) The objective lens of claim 1, wherein the first contacting section

and the second contacting section are provided in a ring-shaped form on the flange

section around the optically functional section.

18. (Original) The objective lens of claim 1, wherein a first image side-flat

surface is provided in a direction perpendicular to the optical axis at the image side on

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the flange section outer more than the first contacting section and a second image

side-flat surface is provided in a direction perpendicular to the optical axis at the image

side on the flange section outer more than the optically functional section of the second

lens.

19. (Original) The objective lens of claim 18, wherein the first image side-flat

surface and the second image side-flat surface are a mirror surface respectively.

20. (Original) The objective lens of claim 1, further comprising:

a gas flow passage to allow gas to flow between a space enclosed by the

optically functional section of the first lens and the optically functional section of the

second lens and outside of the object lens.

21. (Original) The objective lens of claim 20, wherein the gas flow passage is

provided in the vicinity of a position where the first lens and the second lens are jointed.

22. (Original) The objective lens of claim 20, wherein the gas flow passage is

provided on one of the first lens and the second lens.

23. (Original) The objective lens of claim 1, wherein the flange section of the

first lens and the flange section of the second lens are fitted with each other almost all

around the flange section and predetermined portions on the fitted section between the

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flange section of the first lens and the flange section of the second lens are applied with

an adhesive and a portion on the fitted section is not applied with the adhesive.

24. (Original) The objective lens of claim 1, wherein the flange section of the

first lens and the flange section of the second lens are fitted in close contact with each

other almost all around the flange section and at least one of the first lens and the

second lens has a water vapor transmission ratio of 1 g/m² • 24h to 60 g/m² • 24h.

25. (Currently Amended) The objective lens of claim [[1]] 23, wherein the flange

section of the first lens and the flange section of the second lens are fitted in close

contact with each other almost all around the flange section and at least one of the first

lens and the second lens has [[the]] a coefficient of [[the]] water absorption of the

adhesive after hardened [[is]] of 0.01% to 2%.

26. (Original) The objective lens of claim 1, wherein a numerical aperture of the

objective lens is 0.8 to 0.9.

27. (Currently Amended) An objective lens for use in an optical pickup

apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a

flange section provided around the periphery of the optically functional section, and a

first contacting section provided on the flange section; and

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a second lens molded with a plastic, located opposite to the first lens and having

an optically functional section, a flange section provided around the periphery of the

optically functional section, and a second contacting section provided on the flange

section,

wherein the first lens and the second lens are jointed in such a way that the first

contacting section and the second contacting section are brought in contact with each

other,

wherein the first lens has a first surface and a second surface and the second

lens has a third surface and a fourth surface as an optically functional surface, and

wherein when the objective lens has an object side and an image side, the first surface,

the second surface, the third surface and the fourth surface are arranged in this order

from the object side and the first surface and the third surface are a convex surface

respectively, and

wherein the fourth surface is a flat surface.[[.]]

28. (Original) An objective lens for use in an optical pickup apparatus,

comprising:

a first lens molded with a plastic and having an optically functional section, a

flange section provided around the periphery of the optically functional section, and a

first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having

an optically functional section, a flange section provided around the periphery of the

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optically functional section, and a second contacting section provided on the flange section,

wherein the first lens and the second lens are jointed in such a way that the first contacting section and the second contacting section are brought in contact with each other.

wherein the first lens has a first surface and a second surface and the second lens has a third surface and a fourth surface as an optically functional surface, and wherein when the objective lens has an object side and an image side, the first surface, the second surface, the third surface and the fourth surface are arranged in this order from the object side and the first surface and the third surface are a convex surface respectively, and

wherein a concave portion made hollow toward the object side from a position where the fourth surface is located closest to the object is provided on the flange section provided around the periphery of the optically functional section.

29. (Original) An objective lens for use in an optical pickup apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having an optically functional section, a flange section provided around the periphery of the

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optically functional section, and a second contacting section provided on the flange section.

wherein the first lens and the second lens are jointed in such a way that the first contacting section and the second contacting section are brought in contact with each other, and

wherein the first contacting surface has a first parallel surface parallel to the optical axis and the second contacting surface has a second parallel surface parallel to the optical axis and wherein the first parallel surface and the second parallel surface are brought in contact with each other so that relatively positioning in the direction perpendicular to the optical axis between the first lens and the second lens is determined.

30. (Currently Amended) An objective lens for use in an optical pickup apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a second contacting section provided on the flange section,

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wherein the first lens and the second lens are jointed in such a way that the first contacting section and the second contacting section are brought in contact with each other, and

wherein the first contacting surface section has a first perpendicular surface perpendicular to the optical axis and a first parallel surface parallel to the optical axis and the second contacting surface section has a second perpendicular surface perpendicular to the optical axis and a second parallel surface parallel to the optical axis and wherein the first perpendicular surface and the second perpendicular surface are brought in contact with each other so that relatively positioning in the optical axis direction between the first lens and the second lens is determined, and the first parallel surface and the second parallel surface are brought in contact with each other so that relatively positioning in the direction perpendicular to the optical axis between the first lens and the second lens is determined.

31. (Currently Amended) An objective lens for use in an optical pickup apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a second contacting section provided on the flange section,

wherein the first lens and the second lens are jointed in such a way that the first contacting section and the second contacting section are brought in contact with each other, and

wherein the diameter of the optically functional section of a lens located closest to the image side is 40% or less of the outer diameter of the lens <u>located closest</u> to the image side.

32. (Original) An objective lens for use in an optical pickup apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a second contacting section provided on the flange section,

wherein the first lens and the second lens are jointed in such a way that the first contacting section and the second contacting section are brought in contact with each other, and

wherein a first image side-flat surface is provided in a direction perpendicular to the optical axis at the image side on the flange section outer more than the first contacting section and a second image side-flat surface is provided in a direction

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perpendicular to the optical axis at the image side on the flange section outer more than the optically functional section of the second lens.

33. (Original) An objective lens for use in an optical pickup apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a second contacting section provided on the flange section,

wherein the first lens and the second lens are jointed in such a way that the first contacting section and the second contacting section are brought in contact with each other, and

wherein the first contacting section has a first slope surface slanted to the optical axis and the second contacting section has a second slope surface slanted to the optical axis and wherein the first slope surface and the second slope surface are brought in contact with each other so that relatively positioning in the optical axis direction and in the direction perpendicular to the optical axis between the first lens and the second lens is determined.

34. (Original) An objective lens for use in an optical pickup apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a second contacting section provided on the flange section, wherein the first lens and the second lens are jointed in such a way that the first contacting section and the second contacting section are brought in contact with each other, and

a gas flow passage to allow gas to flow between a space enclosed by the optically functional section of the first lens and the optically functional section of the second lens and outside of the object lens.

35. (Currently Amended) The objective lens of claim 34, wherein the flange section of the first lens and the flange section of the second lens are fitted with each other almost all around the flange section and predetermined portions on the fitted section between the flange section of the first lens and the flange section of the second lens are applied with an adhesive and a portion on the fitted section is not applied with the adhesive, and wherein the portion not applied with the adhesive is used as [[a]] the gas flow passage.

- 36. (Currently Amended) The objective lens of claim 34, wherein the flange section of the first lens and the flange section of the second lens are fitted with each other almost all around the flange section and predetermined portions on the fitted section between the flange section of the first lens and the flange section of the second lens are applied with an adhesive and a portion on the fitted section is not applied with the adhesive, and wherein the portion not applied with the adhesive is provided at least two positions on the fitted section.
- 37. (Currently Amended) The objective lens of claim 34, wherein the flange section of the first lens and the flange section of the second lens are fitted with each other almost all around the flange section and predetermined portions on the fitted section between the flange section of the first lens and the flange section of the second lens are applied with an adhesive and a portion on the fitted section is not applied with the adhesive, and wherein the predetermine portions applied with the adhesive are arranged with an equal interval between the predetermine portions.
- 38. (Currently Amended) The objective lens of claim 34, wherein the flange section of the first lens and the flange section of the second lens are fitted with each other almost all around the flange section and predetermined portions on the fitted section between the flange section of the first lens and the flange section of the second lens are applied with an adhesive and a portion on the fitted section is not applied with the adhesive, and wherein [[the]] a water vapor transmission ratio of the adhesive after hardened is 10 g/m² 24h to 60 g/m² 24h.

- 39. (Currently Amended) The objective lens of claim 34, wherein the flange section of the first lens and the flange section of the second lens are fitted with each other almost all around the flange section and predetermined portions on the fitted section between the flange section of the first lens and the flange section of the second lens are applied with an adhesive and a portion on the fitted section is not applied with the adhesive, and wherein a coefficient of water absorption of the adhesive after hardened is 0.1% to 10%.
- 40. (Currently Amended) The objective lens of claim 34, wherein the flange section of the first lens and the flange section of the second lens are fitted with each other almost all around the flange section and predetermined portions on the fitted section between the flange section of the first lens and the flange section of the second lens are applied with an adhesive and a portion on the fitted section is not applied with the adhesive, and wherein [[the]] an adhesion strength of the adhesive after hardened is 40 Kgf/cm² to 300 Kgf/cm².
- 41. (Original) The objective lens of claim 34, wherein at least one of the first lens and the second lens has a water vapor transmission ratio of 1 g/m² 24h to 60 g/m² 24h.
- 42. (Currently Amended) The objective lens of claim 34, wherein the flange section of the first lens and the flange section of the second lens are fitted with each

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other almost all around the flange section and predetermined portions on the fitted section between the flange section of the first lens and the flange section of the second lens are applied with an adhesive and a portion on the fitted section is not applied with the adhesive, and wherein at least one of the first lens and the second lens has [[the]] a coefficient of [[the]] water absorption of the adhesive after hardened [[is]] of 0.01% to 2%.

43. (Original) An objective lens for use in an optical pickup apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a first contacting section provided on the flange section; and

a second lens molded with a plastic located opposite to the first lens and having an optically functional section, a flange section provided around the periphery of the optically functional section, and a second contacting section provided on the flange section,

wherein the first lens and the second lens are jointed in such a way that the first contacting section and the second contacting section are brought in contact with each other, and

wherein the flange section of the first lens and the flange section of the second lens are fitted with each other almost all around the flange section and predetermined portions on the fitted section between the flange section of the first lens and the flange

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section of the second lens are applied with an adhesive and a portion on the fitted

section is not applied with the adhesive.

44. (Original) An objective lens for use in an optical pickup apparatus,

comprising:

a first lens molded with a plastic and having an optically functional section, a

flange section provided around the periphery of the optically functional section, and a

first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having

an optically functional section, a flange section provided around the periphery of the

optically functional section, and a second contacting section provided on the flange

section,

wherein the first lens and the second lens are jointed in such a way that the first

contacting section and the second contacting section are brought in contact with each

other, and

wherein the flange section of the first lens and the flange section of the second

lens are fitted in close contact with each other almost all around the flange section and

at least one of the first lens and the second lens has a water vapor transmission ratio

of 1 $g/m^2 \cdot 24h$ to 60 $g/m^2 \cdot 24h$.

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45. (Currently Amended) An objective lens for use in an optical pickup

apparatus, comprising:

a first lens molded with a plastic and having an optically functional section, a

flange section provided around the periphery of the optically functional section, and a

first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having

an optically functional section, a flange section provided around the periphery of the

optically functional section, and a second contacting section provided on the flange

section,

wherein the first lens and the second lens are jointed in such a way that the first

contacting section and the second contacting section are brought in contact with each

other, and

wherein the flange section of the first lens and the flange section of the second

lens are fitted in close contact with each other almost all around the flange section and

at least one of the first lens and the second lens has [[the]] a coefficient of [[the]] water

absorption of the adhesive after hardened [[is]] of 0.01% to 2%.

46. (Original) An objective lens for use in a optical pickup apparatus,

comprising:

a first lens having an optically functional section;

a second lens having an optically functional section;

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an intermediate holding member to hold the first lens and the second lens in such a way that the first lens, the second lens and the intermediate holding member are constructed in a single body, and

a gas flow passage to allow gas to flow between a space enclosed by the optically functional section of the first lens, the intermediate holding member and the optically functional section of the second lens and outside of the object lens.

- 47. (Original) The objective lens of claim 46, wherein the gas flow passage is provided in the vicinity of a position where the first lens, the intermediate holding member and the second lens are jointed.
- 48. (Original) The objective lens of claim 46, wherein the gas flow passage is provided on at least one of the first lens, the intermediate holding member and the second lens.
- 49. (Original) An optical unit for use in an optical device, comprising:

 a first optical element having an optically functional section and a first contacting section provided on a periphery of the optically functional section, and

a second optical element having an optically functional section and a first contacting section provided on a periphery of the optically functional section;

wherein the first optical element and the second optical element are jointed in such a way that the first contacting section and the second contacting section are

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brought in contact with each other and an enclosure space is provided between the first

optical element and the second optical element, and

wherein at least one of the first optical element and the second optical element is

provided with an air flow passage to communicate between the enclosure space and

the outside.

50. (Original) The optical unit of claim 49, wherein the first optical element is a

flat plate-shaped optical element and the second optical element is a lens having a

flange section provided around the optically functional section, and

wherein the second contacting section is provided on the flange section and is

fixed with the first contacting section with an adhesive.

51. (Original) The optical unit of claim 50, wherein the flat plate-shaped optical

element is a hologram element, a wavelength plate, a polarizing plate and a phase

correcting element.

52. (Original) An optical pickup apparatus, comprising:

an objective lens comprising:

a first lens molded with a plastic and having an optically functional section,

a flange section provided around the periphery of the optically functional section, and a

first contacting section provided on the flange section; and

a second lens molded with a plastic, located opposite to the first lens and having

an optically functional section, a flange section provided around the periphery of the

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optically functional section, and a second contacting section provided on the flange

section,

wherein the first lens and the second lens are jointed in such a way that the first

contacting section and the second contacting section are brought in contact with each

other, and

wherein on the condition where the first contacting section and the second

contacting section are brought in contact with each other so that relatively positioning in

the optical axis direction between the first lens and the second lens is determined, when

the second lens is shifted relatively to the first lens in a direction perpendicular to the

optical axis in a clearance on a fitted section between the first lens and the second lens,

a variance in wave front aberration on an image forming point is less than a value

defined by a diffraction limiting function.

53. (Original) The optical pickup apparatus of claim 52, wherein optical pickup

apparatus has a wave front aberration lower than the value defined by Maréchal's

criterion.

54. (Original) The optical pickup apparatus of claim 52, wherein the first lens is

held by a lens frame driven by an actuator.

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